

Message Text

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PAGE 01 PARIS 05757 211810Z
ACTION OES-07

INFO OCT-01 EUR-12 NEA-10 ISO-00 ACDA-12 CIAE-00
INR-10 IO-13 L-03 NSAE-00 NSC-05 EB-08 NRC-05
SOE-02 DODE-00 DOE-11 SS-15 SP-02 CEQ-01 PM-05
/122 W

-----108709 212159Z /72

R 211638Z FEB 78
FM AMEMBASSY PARIS
TO SECSTATE WASHDC 6827
INFO DEA WASHDC
AMEMBASSY TEL AVIV
AMEMBASSY CAIRO
AMEMBASSY VIENNA
USINT BAGHDAD

LIMITED OFFICIAL USE PARIS 05757

VIENNA FOR USIAEA

E.O.11652: N/A
TAGS: MNUC TECH FR
SUBJ: POTENTIAL FUEL FOR FUTURE FRENCH RESEARCH REACTORS

REF: PARIS 5073

FURTHER EFFORT TO DEFINE THE FRENCH "CAMEL" FUEL
ELEMENT INDICATES THAT:

1) THIS IS A SANDWICH PLATE TYPE FUEL FABRICATED
BY THE PICTURE FRAME TECHNIQUE IN WHICH THE URANIUM
DIOXIDE MEAT SECTION IS CLAD IN ZIRCALOY PLATES.

2) AN IRRADIATION TEST IN OSIRIS WAS
COMPLETED WHICH REACHED A POWER DENSITY OF 1700 WATTS
PER CENTIMETER CUBE WITH OUTSIDE CLAD TEMPERATURE OF
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335 DEGREES CENTIGRADE AND BURNUP OF 44,000 MWD/T.
POST IRRADIATION EXAMINATION OF THIS INDICATED EXCEL-
LENT PERFORMANCE OF 3 MILLIMETER PLATES.

3) A 3 YEAR TEST PROGRAM STARTED LATE IN 1975
CONTINUES IN THE OSIRIS REACTOR. IT IS AIMED AT
DEFINING THE OPERATING LIMITS OF THIS FUEL USING

4 MM PLATES. SOME 10 TESTS ARE INVOLVED AND MAXIMUM
BURNUP IS TO BE 65PP MWD/T. OTHER TESTS OF THIS
FUEL IN THE PAT REACTOR AT CADARACHE INVOLVE
THERMAL CYCLING AND TRANSIENT BEHAVIOR EVALUATION.
MYERSON

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NNN

Message Attributes

Automatic Decaptioning: X
Capture Date: 01 jan 1994
Channel Indicators: n/a
Current Classification: UNCLASSIFIED
Concepts: RESEARCH, NUCLEAR FUELS, NUCLEAR REACTORS
Control Number: n/a
Copy: SINGLE
Draft Date: 21 feb 1978
Decaption Date: 01 jan 1960
Decaption Note:
Disposition Action: RELEASED
Disposition Approved on Date:
Disposition Case Number: n/a
Disposition Comment: 25 YEAR REVIEW
Disposition Date: 20 Mar 2014
Disposition Event:
Disposition History: n/a
Disposition Reason:
Disposition Remarks:
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Expiration:
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Format: TEL
From: PARIS
Handling Restrictions: n/a
Image Path:
ISecure: 1
Legacy Key: link1978/newtext/t19780232/aaaabbhj.tel
Line Count: 67
Litigation Code IDs:
Litigation Codes:
Litigation History:
Locator: TEXT ON-LINE, ON MICROFILM
Message ID: 6ff960d3-c288-dd11-92da-001cc4696bcc
Office: ACTION OES
Original Classification: LIMITED OFFICIAL USE
Original Handling Restrictions: n/a
Original Previous Classification: n/a
Original Previous Handling Restrictions: n/a
Page Count: 2
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Previous Handling Restrictions: n/a
Reference: 78 PARIS 5073
Retention: 0
Review Action: RELEASED, APPROVED
Review Content Flags:
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Review Event:
Review Exemptions: n/a
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Review Release Event: n/a
Review Transfer Date:
Review Withdrawn Fields: n/a
SAS ID: 3535868
Secure: OPEN
Status: NATIVE
Subject: POTENTIAL FUEL FOR FUTURE FRENCH RESEARCH REACTORS
TAGS: MNUC, TECH, FR
To: STATE
Type: TE
vdkgvwkey: odhc://SAS/SAS.dbo.SAS_Docs/6ff960d3-c288-dd11-92da-001cc4696bcc
Review Markings:
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Declassified/Released
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